

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US98/23168

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(6) C12Q 1/68; C12P 19/34; C07H 21/04

US CL 435/6, 91.2; 536/24.3, 24.31

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/6, 91.2; 536/24.3, 24.31

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Please See Extra Sheet.

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,501,964 A (WIGLER et al) 26, March 1996 (03/26/96), see entire document, especially abstract and column4, lines 14-35.	1-34
Y	US 5,569,753 A (WIGLER et al) 29 October 1996 (10/29/96), see entire document, especially column 3, lines 35-50.	1-34
Y	US 5,510,270 A (FODOR et al) 23 April 1996 (04/23/96), see entire document, especially abstract.	1-8,11-14
Y	WO 89/10977 A1 (ISIS INNOVATION LIMITED) 16 November 1989 (16.11.89), see entire document.	1-8,11-14

Further documents are listed in the continuation of Box C.  See patent family annex.

• Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
*A* document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
*B* earlier document published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
*O* document referring to an oral disclosure, use, exhibition or other means		
*P* document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

15 JANUARY 1999

Date of mailing of the international search report

08 FEB 1999

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PCT/US98/23168

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	GUO, Z. et al. Direct fluorescence analysis of genetic polymorphisms by hybridization with oligonucleotide arrays on glass supports. Nucleic Acids Research. 1994, Vol. 22, No. 24, pages 5456-5465, see entire document.	1-8,11-14
Y	LISITSYN, N. et al. Direct isolation of polymorphic markers linked to a trait by genetically directed representational difference analysis. Nature Genetics. January 1994, Vol. 6, pages 57-63, see entire document.	1-34
Y	HUBANK, M. et al. Identifying differences in mRNA expression by representational difference analysis of cDNA. Nucleic Acids Research. 1994, Vol.22, No. 25, pages 5640-5648, see entire document.	3,4,32-34
T,P	GENG, M. et al. Isolation of Differentially Expressed Genes by Combining Representational Difference Analysis (RDA) and cDNA Library Arrays. BioTechniques. 05 September 1998, Vol. 25, No. 3, pages 434-438, see entire document.	1-34
T,P	CHANG, D.D. et al. Characterization of transformation related genes in oral cancer cells. Oncogene. 1998, Vol. 16, pages 1921-1930, see entire document.	1-34

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B. FIELDS SEARCHED

Electronic data bases consulted (Name of data base and where practicable terms used):

APS, STN WPIDS, BIOSIS, MEDLINE, CANCERLIT, BIOTECHDLS, LIFESCI, CAPLUS, EMBASE  
rda, representational differentiation analysis, HCR, high complexity representation, probe, array, microarray, restriction,  
compound representation